

The TS2 Series is designed for 24, 120 or 230VAC and the TS6 Series is designed for 12 or 24VDC. These series are capable of controlling load currents of up to 1A steady state, 10A inrush. Encapsulated circuitry and the reliability of a $\pm 2\%$ repeat accuracy make the TS2 and TS6 ideal for cost sensitive applications.

Operation (Interval):

Upon application of input voltage, the time delay begins. The output energizes during the time delay. At the end of the time delay, the output de-energizes and remains de-energized until input voltage is removed.

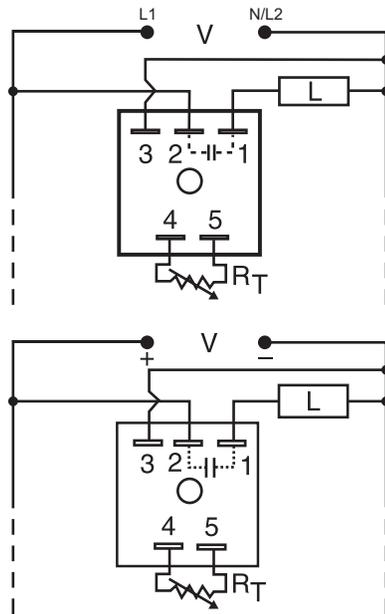
Reset: Removing input voltage resets the time delay and the output.

For more information see:

Appendix A, pages 156-164 for function descriptions and diagrams.

Appendix B, page 165, Figure 1 for dimensional drawing.

Connection:



R_T is used when external adjustment is ordered.

Note: TS6 is not reverse polarity protected.

R _T Selection Chart				
Desired Time Delay*				R _T
Seconds				
1	2	3	4	Megohm
0.05	0.5	2	5	0.0
0.5	10	30	60	0.5
1.0	20	60	120	1.0
24VDC or AC ONLY†				
1.5	30	90	180	1.5
2.0	40	120	240	2.0
2.5	50	150	300	2.5
3.0	60	180	360	3.0
			420	3.5
			480	4.0
			540	4.5
			600	5.0

* When selecting an external R_T add at least 20% for tolerance of unit and the R_T .

† 1 Megohm max for 12 VDC Units

Features:

- 12 or 24VDC; 24,120, or 230VAC input voltages
- Fixed or adjustable delays from 0.05s - 10m in 8 ranges
- Repeat accuracy $\pm 2\%$
- Load currents to 1A, 10A inrush
- Totally solid state & encapsulated

Approvals:

Auxiliary Products:

- **External adjust potentiometer:**
P/N: P1004-XX
P/N: P1004-XX-X
- **Female quick connect:**
P/N: P1015-64 (AWG 14/16)
- **Quick connect to screw adaptor:**
P/N: P1015-18
- **Mounting bracket:** P/N: P1023-6
- **DIN rail:** P/N: C103PM (Al)
- **DIN rail adaptor:** P/N: P1023-20
- **Versa-knob:** P/N: P0700-7
- **Plug-on adjustment module:**
P/N: VTP(X)(X)

TS6 12VDC	
Time Delay	VTP P/N
1 - 0.05-1s	VTP2A
2 - 0.5-20s	VTP2E
3 - 2-60s	VTP2F
4 - 5-120s	VTP2H

TS2 & TS6 All Other Voltages	
Time Delay	VTP P/N
1 - 0.05-3s	VTP4B
2 - 0.5-60s	VTP4F
3 - 2-180s	VTP4J
4 - 5-600s	VTP5N

Selection Table for VTP Plug-on Adjustment Accessory.

Order Tables:

TS2	<input checked="" type="checkbox"/>	Input Voltage	<input checked="" type="checkbox"/>	Adjustment	<input checked="" type="checkbox"/>	Time Delay*
		2 - 24VAC		1 - Fixed		1 - 0.05 - 3s
		4 - 120VAC		2 - External adjust		2 - 0.5 - 60s
		6 - 230VAC				3 - 2 - 180s
						4 - 5 - 600s

*If fixed delay is selected, insert delay (0.05 - 600) in seconds.

TS6	<input checked="" type="checkbox"/>	Input Voltage	<input checked="" type="checkbox"/>	Adjustment	<input checked="" type="checkbox"/>	Time Delay*	<input checked="" type="checkbox"/>	Switching Mode
		1 - 12VDC		1 - Fixed		12VDC		P - Positive
		3 - 24VDC		2 - External adjust		24VDC		
						1 - 0.05 - 1s		
						2 - 0.5 - 20s		
						3 - 2 - 60s		
						4 - 5 - 120s		

*If fixed delay is selected, insert delay (0.05 - 120 12VDC) or (0.05 - 600 24VDC) in secs.

Available Models:

TS22120	TS2421	TS6116P
TS2213	TS2422	TS6122P
TS2223	TS2423	TS6123P
TS2411.5	TS2424	TS6311P
TS24110	TS2611.5	TS63110P
TS2412	TS26130	TS6321P
TS2413	TS26190	
TS24130	TS2621	

If desired part number is not listed, please call us to see if it is technically possible to build.

Specifications

Time Delay	Type	Range	Repeat Accuracy	Tolerance (Factory Calibration)	Time Delay vs Temp. & Voltage	Reset Time	Input	Voltage	Tolerance	DC Ripple	Power Consumption	Output	Type
	..... Analog circuitry	12VDC	..... $\pm 2\%$ or 20ms, whichever is greater	..... $\leq \pm 10\%$	..... $\leq \pm 10\%$	..... $\leq 150\text{ms}$		12 or 24VDC; 24, 120, or 230VAC	..... $\pm 15\%$	..... 10%	..... DC $\leq 1\text{W}$; AC $\leq 2\text{VA}$		..... Solid state
		Other Voltages											

Form	Maximum Load Current	Voltage Drop	Protection	Circuitry	Polarity	Dielectric Breakdown	Insulation Resistance	Mechanical	Mounting	Dimensions	Termination	Environmental	Operating / Storage Temperature	Humidity	Weight
..... NO, closed during timing 1A steady state, 10A inrush at 60°C DC = 1.0V @ 1A; AC = 2.5V @ 1A Encapsulated TS6 is not reverse polarity protected $\geq 2000\text{V RMS}$ terminals to mounting surface $\geq 100\text{ M}\Omega$ Surface mount with one #10 (M5 x 0.8) screw 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm) 0.25 in. (6.35 mm) male quick connect terminals -40° to 75°C / -40° to 85°C 95% relative, non-condensing $\approx 2.4\text{ oz}$ (68 g)			